

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): An inkjet color ink comprising:

an aqueous medium;

at least one yellow dye having a λ_{\max} of from 390 nm to 470 nm and an $[I(\lambda_{\max}+70 \text{ nm})/I(\lambda_{\max})]$ ratio of an absorbance $I(\lambda_{\max}+70 \text{ nm})$ at $\lambda_{\max}+70 \text{ nm}$ to an absorbance $I(\lambda_{\max})$ at λ_{\max} of not more than 0.4; and

at least one dye having a λ_{\max} of longer than 470 nm and not longer than 750 nm,

the at least one yellow dye and the at least one dye being at least dissolved or dispersed in the aqueous medium,

wherein

in case the ink is printed on a reflection medium so as to form a stepwise density,

when a light having a wavelength of a λ_{\max} of the ink in a yellow region of 390 nm to 470 nm is illuminated to the printed medium, whose reflection spectrum of the light is measured by a spectrophotometer, and a point giving a reflection spectrum such that a reflection density, D_B , at the λ_{\max} of the ink in the yellow region, is from 0.90 to 1.10 is selected,

a reflection density at a λ_{\max} of the ink in a region of longer than 470 nm and not longer than 750 nm at the point is defined as D_X , and

the printed medium is discolored by force using an ozone discoloration tester capable of always generating 5 ppm of ozone, a forced discoloration rate constant determined from a time when each of the reflection densities D_B and D_X becomes 80 % of an initial density is defined, and both of the rate constants are not more than $5.0 \times 10^{-2} \text{ hour}^{-1}$.

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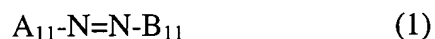
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2. (original): The inkjet color ink according to claim 1, wherein the $[I(\lambda_{\max}+70 \text{ nm})/I(\lambda_{\max})]$ ratio is not more than 0.2.

3. (original): The inkjet color ink according to claim 1, wherein the yellow dye and the dye having a λ_{\max} of longer than 470 nm and not longer than 750 nm have an oxidation potential nobler than 1.0 V (vs SCE).

4. (original): The inkjet color ink according to claim 2, wherein the yellow dye and the dye having a λ_{\max} of longer than 470 nm and not longer than 750 nm have an oxidation potential nobler than 1.0 V (vs SCE).

5. (original): The inkjet color ink according to claim 1, wherein the yellow dye is a compound represented by the following formula (1):



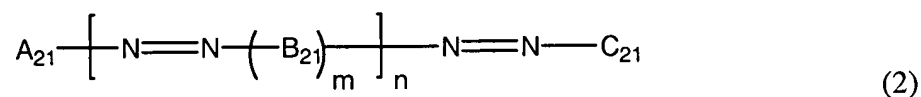
wherein A_{11} and B_{11} each independently represents an optionally substituted heterocyclic group.

6. (original): The inkjet color ink according to claim 2, wherein the yellow dye is a compound represented by the following formula (1):



wherein A_{11} and B_{11} each independently represents an optionally substituted heterocyclic group.

7. (original): The inkjet color ink according to claim 1, wherein at least one dye having a λ_{\max} of longer than 470 nm and not longer than 750 nm is a compound represented by the following formula (2):

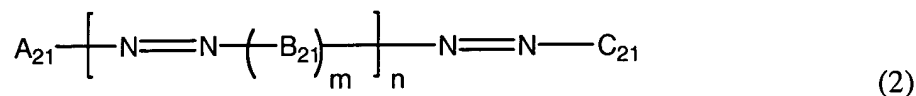


wherein A_{21} , B_{21} , and C_{21} each independently represents an optionally substituted aromatic group or heterocyclic group; and m and n each represents an integer of 0 or more.

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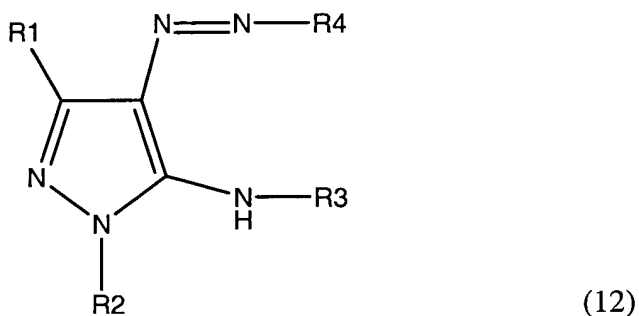
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8. (original): The inkjet color ink according to claim 2, wherein at least one dye having a λ_{max} of longer than 470 nm and not longer than 750 nm is a compound represented by the following formula (2):

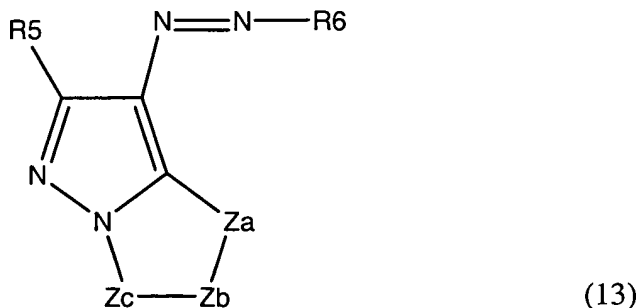


wherein A_{21} , B_{21} , and C_{21} each independently represents an optionally substituted aromatic group or heterocyclic group; and m and n each represents an integer of 0 or more.

9. (new): The inkjet color ink according to claim 5, wherein the compound represented by formula (1) is a compound represented by one of the following formulas (12), (13), and (14):



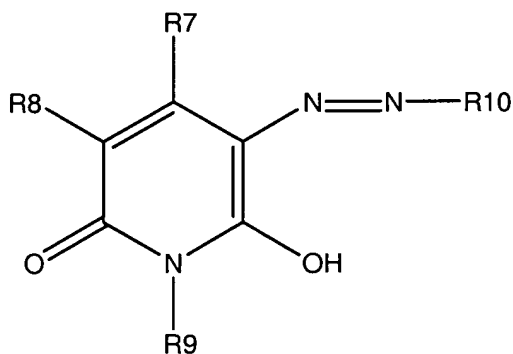
wherein $R1$ and $R3$ each independently represents a hydrogen atom, a cyano group, an alkyl group, a cycloalkyl group, an aralkyl group, an alkoxy group, an alkylthio group, an arylthio group, an aryl group, or an ionically hydrophilic group, $R2$ represents a hydrogen atom, an alkyl group, a cycloalkyl group, an aralkyl group, a carbamoyl group, an acyl group, an aryl group, or a heterocyclic group, and $R4$ represents a heterocyclic group;



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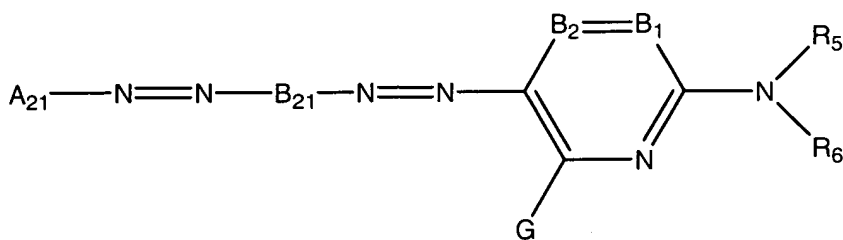
wherein R5 represents a hydrogen atom, a cyano group, an alkyl group, a cycloalkyl group, an aralkyl group, an alkoxy group, an alkylthio group, an arylthio group, an aryl group, or an ionically hydrophilic group; Za represents $-N=$, $-NH-$, or $-C(R11)=$; Zb and Zc each independently represents $-N=$ or $-C(R11)=$; R11 represents a hydrogen atom or a non-metallic substituent; and R6 represents a heterocyclic group; and



(14)

wherein R7 and R9 each independently represents a hydrogen atom, a cyano group, an alkyl group, a cycloalkyl group, an aralkyl group, an aryl group, an alkylthio group, an arylthio group, an alkoxycarbonyl group, a carbamoyl group, or an ionically hydrophilic group; R8 represents a hydrogen atom, a halogen atom, an alkyl group, an alkoxy group, an aryl group, an aryloxy group, a cyano group, an acylamino group, a sulfonylamino group, an alkoxycarbonylamino group, a ureido group, an alkylthio group, an arylthio group, an alkoxycarbonyl group, a carbamoyl group, a sulfamoyl group, a sulfonyl group, an acyl group, an alkylamino group, an arylamino group, a hydroxyl group, or an ionically hydrophilic group; and R10 represents a heterocyclic group.

10. (new): The inkjet color ink according to claim 7, wherein the compound represented by formula (2) is a compound represented by the following formula (2-1):



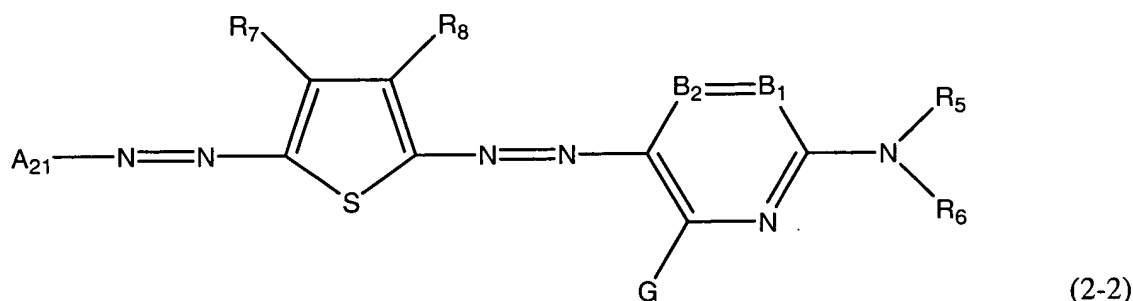
(2-1)

wherein B_1 and B_2 each independently represents $=CR_1-$ or $-CR_2=$, or one of them represents a nitrogen atom, and the other represents $=CR_1-$ or $-CR_2=$,

G , R_1 , and R_2 each independently represents a hydrogen atom, a halogen atom, an aliphatic group, an aromatic group, a heterocyclic group, a cyano group, a carboxyl group, a carbamoyl group, an alkoxycarbonyl group, an aryloxycarbonyl group, a heterocyclic oxycarbonyl group, an acyl group, a hydroxyl group, an alkoxy group, an aryloxy group, a heterocyclic oxy group, a silyloxy group, an acyloxy group, a carbamoyloxy group, an alkoxycarbonyloxy group, an aryloxycarbonyloxy group, an amino group (including an alkylamino group, an arylamino group, and a heterocyclic amino group), an acylamino group, a ureido group, a sulfamoylamino group, an alkoxycarbonylamino group, an aryloxycarbonylamino group, an alkylsulfonylamino group, an arylsulfonylamino group, a heterocyclic sulfonylamino group, a nitro group, an alkylthio group, an arylthio group, a heterocyclic thio group, an alkylsulfonyl group, an arylsulfonyl group, a heterocyclic sulfonyl group, an alkylsulfinyl group, an arylsulfinyl group, a heterocyclic sulfinyl group, a sulfamoyl group, or a sulfo group, and

R_5 and R_6 each independently represents a hydrogen atom, an aliphatic group, an aromatic group, a heterocyclic group, an acyl group, an alkoxycarbonyl group, an aryloxycarbonyl group, a carbamoyl group, an alkylsulfonyl group, an arylsulfonyl group, or a sulfamoyl group.

11. (new): The inkjet color ink according to claim 10, wherein the compound represented by formula (2-1) is a compound represented by the following formula (2-2):

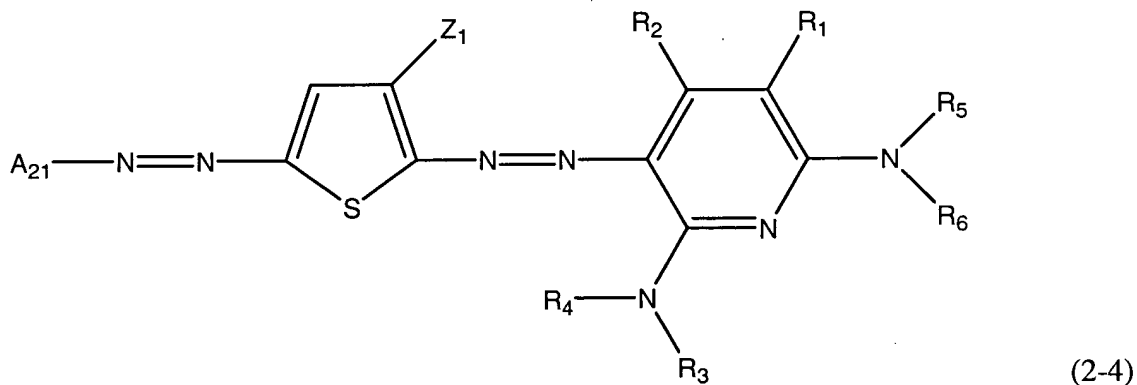


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wherein R_7 and R_8 each independently represents a hydrogen atom, a halogen atom, an aliphatic group, an aromatic group, a heterocyclic group, a cyano group, a carboxyl group, a carbamoyl group, an alkoxycarbonyl group, an aryloxycarbonyl group, a heterocyclic oxycarbonyl group, an acyl group, a hydroxyl group, an alkoxy group, an aryloxy group, a heterocyclic oxy group, a silyloxy group, an acyloxy group, a carbamoyloxy group, an alkoxycarbonyloxy group, an aryloxycarbonyloxy group, an amino group (including an alkylamino group, an arylamino group, and a heterocyclic amino group), an acylamino group, a ureido group, a sulfamoylamino group, an alkoxycarbonylamino group, an aryloxycarbonylamino group, an alkylsulfonylamino group, an arylsulfonylamino group, a heterocyclic sulfonylamino group, a nitro group, an alkylthio group, an arylthio group, a heterocyclic thio group, an alkylsulfonyl group, an arylsulfonyl group, a heterocyclic sulfonyl group, an alkylsulfinyl group, an arylsulfinyl group, a heterocyclic sulfinyl group, a sulfamoyl group, or a sulfo group.

12. (new): The inkjet color ink according to claim 10, wherein the compound represented by formula (2-1) is a compound represented by the following formula (2-4):



wherein Z_1 represents an electron withdrawing group having a Hammett's substituent constant σ_p value of 0.20 or more, and

R_3 and R_4 each independently represents a hydrogen atom, an aliphatic group, an aromatic group, a heterocyclic group, an acyl group, an alkoxycarbonyl group, an

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aryloxycarbonyl group, a carbamoyl group, an alkylsulfonyl group, an arylsulfonyl group, or a sulfamoyl group.

13. (new): The inkjet color ink according to claim 7, wherein m in formula (2) is 1 or 2.

14. (new): The inkjet color ink according to claim 7, wherein n in formula (2) is 1 or 2.

15. (new): The inkjet color ink according to claim 7, wherein each of m and n in formula (2) is 1.

16. (new): The inkjet color ink according to claim 7, wherein at least two of A₂₁, B₂₁, and C in formula (2) each represents an optionally substituted, unsaturated heterocyclic group.

17. (new): The inkjet color ink according to claim 7, wherein at least B₂₁ and C in formula (2) each represents an unsaturated heterocyclic group.